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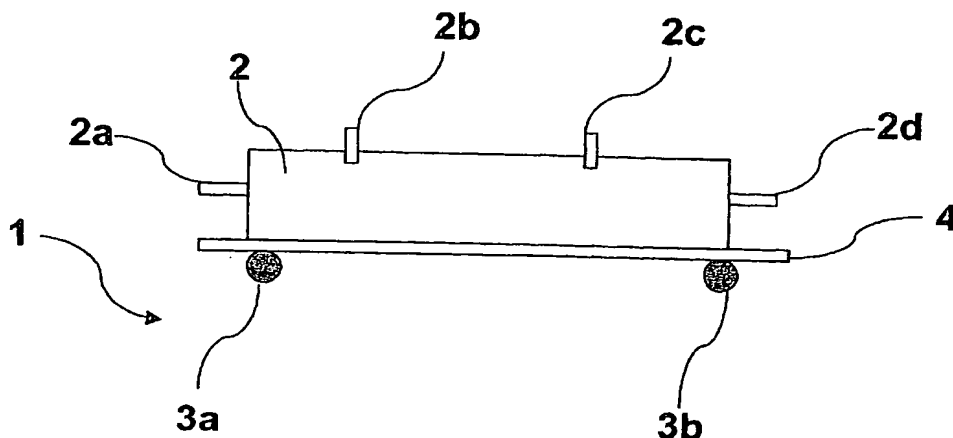
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[Continued on next page]

(54) Title: BULK FLUID FLOW GATE



(57) Abstract: A bulk fluid flow gate is provided. In accordance with certain exemplary embodiments the bulk fluid flow gate includes a first and second entry port and first and second exit ports. Bulk fluid is flowed into the chamber to provide greater hydrodynamic resistance at the first exit port than at the second exit port. The bulk fluid flow gate is useful for separation, testing and or analysis of analytes. Methods of making and using the bulk fluid flow gate are also provided. In accordance with certain exemplary embodiments a fluid flow gate includes a first entry port into a microscale chamber and first and second exit ports. In accordance with certain embodiments a fluid flow gate includes a first entry port to a chamber and first and second exit ports, wherein greater hydrodynamic resistance is provided at the first exit port than at the second exit port.



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US CL : 137/807, 827, 833; 204/601

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,880,071 A (PARCE et al) 09 March 1999 (09.03.1999), See column 5, lines 60, column 8, lines 55.	1-13, 40-42, 44-49
—		
Y		14-39
Y	US 6,444,461 B1 (KNAPP et al) 03 September 2002 (03.09.2002), See column 31, lines 15.	26 and 38
Y	US 6,321,791 B1 (CHOW) 27 November 2001 (27.11.2001), See column 12 lines 47.	43
A	US 6,508,273 B1 (VAN DEN BERG) 21 January 2003 (21.01.2003), See entire document.	
P	US 6,725,882 A (SHIA et al.) 27 April 2004 (27.04.2004), See column 6, lines 6.	1-49

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